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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/501,843	11/30/2004	Gerhard Bonnet	PTK0026 8953 EXAMINER		
832 DAVED & DA	7590 09/21/2007 NIELS LLD	·			
BAKER & DANIELS LLP 111 E. WAYNE STREET			BRAINARD,	BRAINARD, TIMOTHY A	
SUITE 800	E IN 46002		ART UNIT	PAPER NUMBER	
FORT WAYNE, IN 46802			3662		
			MAIL DATE	DELIVERY MODE	
			09/21/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/501,843	BONNET, GERHARD				
Office Action Summary	Examiner	Art Unit				
	Timothy A. Brainard	3662				
The MAILING DATE of this communication app	1	correspondence address				
Period for Reply	/ 10 05T TO EVOIDE 4 MONTH	(O) OD THUDTY (20) DAYO				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be till apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>02 Ju</u>	<u>ıly 2007</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	· · · · · · · · · · · · · · · · · · ·					
6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.	V.				
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>15 July 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	•	ed in this National Stage				
application from the International Bureau	• • • • • • • • • • • • • • • • • • • •					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Nakamura (Optical Frequency Domain). Nakamura teaches (Claim 1) a device for local object distance measurement comprising a frequency shifted feedback radiation source for object irradiation with irradiation that can be used for distance measurement and a position-sensitive object detection sensor (abs), wherein the frequency shifted feedback radiation source for object irradiation includes a means for increasing radiation frequency component beat intensity and the position-sensitive object detection sensor detects beat intensity from the object and incoming irradiation not from the object (experiment).

Claim 1, 3-6 and 14-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Phillips et al (US 5835199). Phillips teaches (claims 1 and 14) a device for distance measurement comprising a frequency shifted feedback radiation source for object irradiation with irradiation that can be used for distance measurement and a position-sensitive object detection sensor (col 1, lines 17-30), wherein the frequency shifted feedback radiation source for object irradiation includes a means for increasing radiation

frequency component beat intensity and the position-sensitive object detection sensor for detection of detects beat intensity from the object and incoming irradiation not from the object (col 4, lines 10-20), (claim 3 and 15) the frequency shifted feedback radiation source is a laser and the means for increasing radiation frequency component beat intensity (col 4, lines 10-19), (claim 4) a means to change the seed frequency gradually (col 18, lines 10-53), (claim 5 and 6) a filter used for filtering the beat intensity and the filtering of the filtered alternating signal portions (col 10, lines 28-35).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 2 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura as applied to claim 1 above, and further in view of Ito (US 6,856,723). Ito teaches the means for increasing radiation frequency component beat intensity is configured as a means for non-stochastic increase of radiation frequency component beat intensity (col 3, lines 1-5) but does not teach any element of claim 2 on or below line 4 claim 2. It would have been obvious to modify Nakamura to include the means for increasing radiation frequency component beat intensity is configured as a means for non-stochastic increase of radiation frequency component beat intensity because it is

expected that the increase of radiation frequency component beat intensity would be non-stochastic.

Claims 3-6 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura as applied to claim 1 and 14 above, and further in view of Phillips et al (US 5835199). Phillips teaches the frequency shifted feedback radiation source is a laser and the means for increasing radiation frequency component beat intensity (col 4, lines 10-19), a means to change the seed frequency gradually (col 18, lines 10-53) or a filter used for filtering the beat intensity and the filtering of the filtered alternating signal portions (col 10, lines 28-35). It would have been obvious to modify Nakamura to include the frequency shifted feedback radiation source is a laser and the means for increasing radiation frequency component beat intensity, a means to change the seed frequency gradually, or a filter used for filtering the beat intensity and the filtering of the filtered alternating signal portions each is one of multiple design choices with no new or unexpected result.

Claims 7, 16-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura as applied to claim 1 above, and further in view of Huang (US 6,594,061). Huang teaches signal amplification for conditioning the object detection sensor signals amplification step behind the filtering (fig 1). It would have been obvious to modify Nakamura to include signal amplification for conditioning the object detection sensor signals amplification step behind the filtering because it is one of multiple design choices with no new or unexpected results.

Claims 8-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nakamura as applied to claim 1 above, and further in view of Plava (US 2004/0257266). Plava teaches a stage for determining the distance described in claim 8 (abs), and a stage for determining the distance described in claim 9 using is configured for distance measurement for purposes of achieving a maximum value of the object detection, or (claim 10) a stage for modifying the seed frequency along with the time is used and an object detection sensor signal evaluation stage as a distance-related measurement value determines a value representative of a time for achieving a preset object signal signature as described in claim 10 (paragraph 89). It would have been obvious to modify Nakamura to include a stage for determining the distance described in claim 8 and 9 using is configured for distance measurement for purposes of achieving a maximum value of the object detection, or a stage for modifying the seed frequency along with the time is used and an object detection sensor signal evaluation stage as a distance-related measurement value determines a value representative of a time for achieving a preset object signal signature as described in claim 10 because they are one of multiple design choices with no new or unexpected result.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over t.

Nakamura. Nakamura does not teach the position-sensitive is configured for simultaneous and/or temporally close consecutive sequential receiving and/or evaluation of irradiation from receiving the reflected irradiation from the object on the one hand and other light from the object as described in claim 11. It would be obvious to modify Nakamura to include the position-sensitive object detection sensor is as

configured in claim 11 because light detector will detect light reflected form an object regardless of the source of the light.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nakamura as applied to claim 1 above, and further in view of Dietz et al (US 6603537).

Dietz teaches the position-sensitive object detection sensor is as configured in claim 12

(col 1, lines 59-67) It would have been obvious to modify Nakamura to include the position-sensitive object detection sensor is as configured in claim 12 because it is one of multiple design choices with no new or unexpected result.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over

Nakamura as applied to claim 1 above, and further in view of Bolton et al (US 6147779).

Bolton teaches the position-sensitive object detection sensor as configured in claim 13

(col 2, lines 30-33). It would have been obvious to modify Nakamura to include the position-sensitive object detection sensor as configured in claim 13 because it is one of multiple designs with no new or unexpected results.

Double Patenting

Claims 1-3 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 2, 13, and 15 of copending Application No. 10/501842. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are anticipated by 10/501843.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented. With respect to claims 1, although the conflicting claims are not identical, they are not patentably distinct from each other

because claim 15 of application 10/501843 anticipates claims 1 of the current application. With respect to claims 2, although the conflicting claims are not identical, they are not patentably distinct from each other because claim 2-12, 14 and 20 of application 10/501843 anticipates claims 2 of the current application. With respect to claim 3, although the conflicting claims are not identical, they are not patentably distinct from each other because claim 13 of application 10/501843 anticipates claims 3 of the current application.

Response to Arguments

Applicant's arguments filed 7/2/2007 have been fully considered but they are not persuasive. Applicant argues that

a device for determining object distance measurement is not the same as a frequency shifted feedback radiation source.

Response: Since the device is used to measure distance in claim 15 of the copending application, the device for determining object distance measurement is not patentably distinct from the frequency shifted feedback radiation source.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy A. Brainard whose telephone number is (571) 272-2132. The examiner can normally be reached on Monday - Friday 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Tarcza can be reached on (571)272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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